General Inspection Report

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	ate of Illinois		MAR () 3 1987
Dep	ot. & Div. <u>ILL EPA-MPCP</u> Inspect	or Land	MINE POLEUTION &
Mir	ne Name Fidecity #// Mine	Company CEEE	MAN UNITED COAL CO.
IEI Pei	PA M&M rmit No. <u>Ilooo3o2</u> Permit No.		County PERRY
Ger	neral Location AppRox 5 MICES	WEST	OF Do Quoin
Arı	rival Time 10 Am Weather Conditions	HOT	PARTLY CLOUDY
Mir Ste Coa Not	ne Includes Prime Land Yes/ No Pe eep Slope Rule Applies Yes/ No al Preparation Yes/ No t Applicable	ersons Contacte	t: ROSTINE ed: MILTON - RECLAMATION S
	RAMETER CHECKLIST		
	Availability of: A permits B Plans Imminent Danger to Public Health and Safety		TEMPORARY REPORT
	Significant Imminent Environmental Harm		FINAL REPORT
4.	Signs and Markers: A. mine entrance B. perim observance 1. 100' zone 2. 300' zone F. permi H. not applicable	meter C. blast it area correla	ing D. topsoil E. perimeter ation G. not investigated
5.	Disposal Spoil and Waste Material Outside Pit 1. site capacity 2. covering 3. vegetation B. D. slope of site E. steep slope rules F. vall 1. permit area 2. location near ridge top 3. 5. steep slope rules 6. under drains 7. later 9. engineer inspection G. not investigated H.	within permit ley fill or hea fill design 4. ral drains 8. o	t area C. site approved ad of hollow fills: fill construction controlled placement
6.	Scil Handling: A. removal before other disturb. thickness E. root medium F. other overburd H. root medium satisfactory for top soil repl I. topsoil replaced J. grading current K. ril systems M. timely revegetation and mulching A.	den G. toxic ma lacement (slope lls and gullies	aterial handling e, thickness, texture, s L. erosion control
7.	Prime Land: A. prime land determination B. s disturbance C. thickness removed D. approved stockpiles F. horizon replacement and thickne H. grade ont investigated J. not applicable	horizon storag ess G. protecti	ge E. protection of
8.	General Water Quality and Hydrology: A. water diverted affected area drainage ditches and C. vegetation D. toxic material E. horizontal 2. structure 3. spillway 4. clean out 5. over (yes/ no) 6. seepage 7. structural weaknd treatment system 9. (a). permitted yes/ zone (100') observance I. zone markers 2. NPD	d berms 3. system to be	stem maintenance B. grading sediment ponds: 1. size over 20 acre feet storage rge structure 9. chemical

IL 532-1199 MPC 014 2/84

EPA Region 5 Records Ctr.

324312

K. water quality L. not investigated M. not applicable

Mine Name Fiderity 3//
Stream Channel or Other Water Diversion: (A) temporary or permanent B. size adequacy C. stability D. gradient E. grade stability F. suspended solids G. sediment control H. channel design I. erosion control structures J. fish and wildlife protection K. vegetation L. removal of temporary structures M. structure removal procedures N. not investigated O. not applicable
10. Road Hydrology: A. culverts B. ditches C. location choice D. grade E. stream closeness F. ditch relief drains G. outslope drains H. construction material toxic non-toxic I. maintenance J. railroad spur hydrology K. vegetation L. not investigated M. not applicable
11. Impoundment Structures: A. M.H.S.A. construction observance B. coal waste in structure C. freeboard D. stability E. seepage F. engineer inspection G. dam marker H. maintenance I. ditch and spillways J. changes in geometry of structure not investigated L. not applicable
12. Steep Slope Procedure: A. spoil on outslope B. debris C. highwall removal D. disturbance above highwall E. excess spoil F. instability of spoil and woody material G. not investigated. not applicable
13. Preparation Facility (includes crushing and screening): (A) water circuit 1. open system 2. closed system 3. no water circuit (B) slurry impoundment (1) berm stability a.) seepage (b) vegetative cover c.) freeboard 2. acid producing potential C. not investigated D. not applicable
14. Domestic Wastewater Treatment Facilities: A. type of system 1. activated sludge package plant 2. lagoon - sandfilters 3. septic tank w/sand filters 4. other B. sand filter maintenance 1. weeds 2. raking 3. sand replacement C. chlorination D. certified operator F. not investigated F. not applicable
LEGEND: O = parameter inspected: Ø = comment or question on the parameter
NOTE: Items circled were considered during this investigation. If nothing under a major item was investigated, circle either "not investigated" or "not applicable". Violation means violation or apparent violation.
NO VIOLATIONS FOUND SEE ATTACHMENT

Indicated Parameter

Comments or Action Taken

Check Column						
No.	Vio-	Non-Vio-				
	lation	lation				
Gen Comm		V				
5A						
8F		V				
86						
85		2				
9		~				

ATTACHMENT

Fidelity #11 Freeman United Coal Company August 20, 1986

GENERAL COMMENTS: During the investigation I spoke with Glen Hamilton, Reclamation Supervisor, in regard to the relocation of outfall designations for the southernmost sedimentation pond. I told Mr. Hamilton that this Agency lacked information as to the exact location where the proposed outfall 006 is to be located. On maps already submitted the outfall designation was at the junction of Youngs Creek and the recently constructed ditch that receives effluent water from the southernmost sedimentation pond. I explained that effluent standards must be met as water leaves the sedimentation pond (which is in accordance with NPDES Rules and Regulations). Mr. Hamilton said that he would speak with Bill Smith, Permit Manager, to make the correction on future permit modifications.

Mr. Hamilton and I walked the perimeter of the gob pile and observed the "moat" which collects surface runoff water from the outslopes of the gob pile and in some cases seepage water. The moat appears to be silting in considerably and may need to be cleaned in the near future.

5A: Mr. Hamilton and I observed the gob disposal area which appears to be progressing well and in accordance with the approved plan.

8F: The southernmost sedimentation pond formerly having outfall designation 005, is now outfall 006. Due to the encroachment of mining activities to the east, surface water runoff now enters the southeast section of the pond where before it flowed out of the pond. An application to change outfall designations has been submitted, but has not been approved yet.

8G (8K): During the investigation, I obtained some water samples and prepared and shipped them to this Agency's Champaign Regional Office lab for analysis. The results of the analyses are as follows:

Sample #1 - obtained from Panther Creek near the railroad tressle west of the preparation plant. The creek was flowing at an undetermined rate and the water sample appeared cloudy.

Lab #B13551

Total Iron 1.8 mg/l pH 7.9 Manganese 0.31 mg/l Alkalinity 185 mg/l ROE 1960 mg/l Total Acidity 0

Fidelity #11 Attachment Page 2

Sample #2 - obtained from outfall 002 just northwest of the preparation plant. Water was being discharged at approximately 200 gallons per minute and the water sample appeared clear.

Lab #B613552

Total Iron	0.4 mg/l	Susp. Solids	11 mg/1
Manganese	0.24 mg/l	рН	8.0
Chlorides	8.0 mg/l	Alkalinity	212 mg/1
Sulfates	1640 mg/l	Total Acidity	0
	-	ROE	2670 mg/l

Sample #3 - obtained from Panther Creek at the Rt 152 bridge. The creek was flowing at an undetermined rate and the water sample appeared cloudy.

Lab #B613553

Total Iron	1.6 mg/l	рН	8.0
Manganese	0.34 mg/l	Alkalinity	173 mg/l
R0E	1640 mg/1	Total Acidity	0

In the above samples, Sample #1 was the downstream sample and Sample #3 was the upstream sample.

- 8J: This site is permitted under NPDES Permit IL000302. Note: All DMRs have been submitted in accordance with permit conditions.
- 9: More work still needs to be done to the channel that transport effluent water from the southernmost sedimentation pond to Youngs Creek. The channel still requires some stability measures which includes seeding and rip-rap.

Gary L. Minton

Environmental Protection Specialist

GLM:br/B45/2-20-87

cc: MPCP/FOS/Marion

IDMM

MPCP-20
AMPLE WATER QUALITY AND WASTE THEATMENT WORKS, EFFLUENT SAMPLING FORM ENVIRONMENTAL PROTECTION AGENCY

SAMPLE COLLECTED BY:			LABORATORY USE ONLY
GARY L MINT	ON	SAMPLE RECEIVED BY DATE REC'D	1986
SAMPLING LOCATION	UPSTESAM	DATE ANALYSES COMPLI	
FICELITY X//	PANTHER CZEEK	DATE RESULTS FORWAR	OCT 8 1986
BASIN/SUB-BASIN TRIBUTARY	2	TOTAL TESTS REQUESTE	ED TESTS RUN
J / CK/ 1/1/0 all C	REEK	LAB SECTION	NGN SUPERVISOR
CARD COL. / CARD NO. 1	CARD COL.	CARD NO. 2	CARD COL. 1 3 CARD NO.:
2-5 _ NCE BASIN CODE	6-7 PLAN	T OR STATION NO.	FIPS COUNTY CODE 8 - 10 (USE ONLY FOR PLANTS
11-17	11-17_ \$613.	JJJ LAB ———— ID NO.	11-17 B61333 LAB ID NO.
SAMPLE TYPE CODE (SEE LIST BELOW)	18 SAMPLE	TYPE CODE	18 SAMPLE TYPE CODE
19 - 20 & E YEAR	ARSENIC 19 - 22		PLANKTON (NO/ML) 19 - 23
21 - 22 08 MONTH	BARIUM 23 - 25	<u> </u>	FLUORIDE 24 - 26
23 - 24 2 O DAY	BORON 26 - 28		CHLORIDE 27 - 30
25 - 26 L HOUR (NEAREST)	CADMIUM 29 - 32		SULFATE 31 - 34
27 A TIME OF DAY (A.P.N.)	CHROMIUM (HEX) 33 -	. 35	TOTAL SULFUR 35 - 38
WATER TEMPERATURE 28 - 30 (DEG. F.)	CHROMIUM (TRI) 36 - :	38	OIL 39 - 42
31 - 33 FIELD D.O.	CHROMIUM 39 - 41		M.B.A.S. 43 - 46
PH (UNITS) 34 - 36)	COPPER 42 - 45		CARBON CHLOROFORM EXTRACT 47 - 50
TOTAL PHOSPHORUS 37 - 40	CYANIDE 46 - 49		TURBIDITY (UNITS) 51 - 54
AVG. BOD. 41 - 44	IRON (DISSOLVED) 54		RESIDUE ON 1640
C.O.D. 45 - 48	LEAD 57 - 60		VOLATILE SUSP.
PHENOLS 49 - 52	MANGANESE 61 - 63	0.34	SOLIDS 59 - 62
FEC COL 53 - 59:::	MERCURY (MICRO GM/L) 64 - 66		COLOR (UNITS) 63 - 65
AMMONIA N 60 - 63	NICKEL 67 - 69		ALKALINITY 69 - 71) 173.
NITRATE + NITRITE AS N 64 - 66	SELENIUM 70-72		TOTAL ACIDITY 72 - 74)
ORGANIC N 67 - 69	SILVER 73 - 76	2000	Jo pH 8.2 B+Q FREE ACIDITY 75 - 77
TOTAL N 70 - 72	ZINC 77 - 79	<u> </u>	OTHER TESTS REQUIRED
T.D.S./ E.C. 73 - 76	ALL RESULTS EXPRE	SSED AS MG/L EXCEPT STATED.	 ☐ YES (REFERENCE REVERSE SIDE)☐ NO
SAMPLE TYPE CODES:	Gage Height (or top	of ice) or R.P. to W.S.:	
A = DOMESTIC WASTE ONLY E = INDUSTRIAL WASTE ONLY	Sumpling 1 schingues.		
I = MIXED DOMESTIC & INDUSTRIAL WASTE	Flow conditions (valo	ocity etc.) UNK	
S = STREAM, LAKE, OR RECEIVING WATER T = MINE DRAINAGE OR WASTE	LIOM COUNTIONS (ABIC	ocity etc.,	
X = OTHER OR TYPE UNKNOWN SIGN BELOW FOR EFFLUENT SAMPLE		······································	
TRANSPORTED BY J Mulon		PARTL	,
RECEIVED BY	Weather Conditions:	MOI FINITE	(CLOVAT
DATE REC'D TIME REC'D PM	Comments and unusu	ial conditions (indicate severi	TY): WATER SAMPLE CLOUNTY
TRANSPORTED BY			
RECEIVED BYAM			
DATE REC'D TIME REC'D PM	WPC-129 REV. 3/78		

SAMPLE WATER QUALITY AND WASTE TREATMENT WORKS EFFLUENT SAMPLING FORM

X /	ENVIRONMENTAL PRO	OTECTION AGENCY	
SAMPLE COLLECTED BY:		FOI	R LABORATORY USE ONLY
GARU L MII	117001	SAMPLE RECEIVED BY	
GARY C 1.11		DATE REC'D AUG 2	3 1986 TIME REC'D 4
SAMPLING LOCATION:	downs TREAM	DATE ANALYSES COMPL	ETED
FIDELITY X//	IANINEE CEEEL	DATE RESULTS FORWAR	RDED OCT 8 1986
BASIN/SUB-BASIN TRIBUTARY		TOTAL TESTS REQUEST	ED TESTS RUN
Big Muddy BEACOUP PANTHER	CR	LAB SECTION CHAMP	SUPERVISOR SARD COL.
OÁRD COL. 1 1 CARD NO. 1	CARD COL.	CARD NO. 2	1 3 CARD NO
2-5 NCE BASIN CODE	6-7 PLANT	OR STATION NO.	FIPS COUNTY CODE 8 - 10 (USE ONLY FOR PLAN
11-17	11-17	1D NO.	11-17_ BO 13551_ LAB ID NO.
SAMPLE TYPE CODE (SEE LIST BELOW)	18 Z SAMPLE T	YPE CODE	18 SAMPLE TYPE CODE
19-20 L YEAR	ARSENIC 19 - 22		PLANKTON (NO/ML) 19 - 23
21 - 22 Q & MONTH	BARIUM 23 - 25	<u> </u>	FLUORIDE 24 - 26
23 - 24 20 DAY	BORON 26 - 28		CHLORIDE 27 - 30
25 - 26 / / HOUR (NEAREST)	CADMIUM 29 - 32		SULFATE 31 - 34
27 A TIME OF DAY (A.P.N.)	CHROMIUM (HEX) 33 - 3	5 200	TOTAL SULFUR 35 - 38
WATER TEMPERATURE 28 - 30 (DEG. F.)	CHROMIUM (TRI) 36 - 38	<u> </u>	OIL 39 - 42
31 - 33 FIELD D.O.	CHROMIUM 39 - 41		M.B.A.S. 43 - 46
PH (UNITS) 34 - 36	COPPER 42 - 45	<u></u>	CARBON CHLOROFORM EXTRACT 47 - 50
TOTAL PHOSPHORUS 37 - 40	CYANIDE 46 - 49		TURBIDITY (UNITS) 51 · 54
AVG.	IRON (T) 50 - 53		
BOD. 41 - 44	IRON (DISSOLVED) 54 -	56	RESIDUE ON EVAP. 55 · 58
C.O.D. 45 - 48	LEAD 57 - 60		VOLATILE SUSP. SOLIDS 59 - 62
PHENOLS 49 - 52	MANGANESE 61 - 63	0.31	COLOR (UNITS) 63 - 65
FEC COL 53 - 59::: (#/100ML)	MERCURY		961W 961W
AMMONIA N 60 - 63	(MICHO GW/L) 64 - 66		HARDNESS 66 - 68
NITRATE +	NICKEL 67 - 69		ALKALINITY 69 - 71)
NITRITE AS N 64 - 66	SELENIUM 70-72		TOTAL ACIDITY 72 - 74
ORGANIC N 67 - 69	SILVER 73 - 76		FREE ACIDITY 75 - 77
TOTAL N 70 - 72	ZINC 77 - 79	<u></u>	OTHER TESTS REQUIRED OTHER TESTS REQUIRED OTHER TESTS REQUIRED
T.D.S./ E.C. 73 - 76	ALL RESULTS EXPRESS WHERE OTHERWISE ST		□ NO
AMPAPATE DEPTH Y			
SAMPLE TYPE CODES:		ice) or R.P. to W.S.:	
A = DOMESTIC WASTE ONLY E = INDUSTRIAL WASTE ONLY	Sampling Lechniques:	<u> </u>	
I = MIXED DOMESTIC & INDUSTRIAL WASTE S = STREAM, LAKE, OR RECEIVING WATER T = MINE DRAINAGE OR WASTE X = OTHER OR TYPE UNKNOWN		ty etc.)	
SIGN BELOW FOR EFFLUENT SAMPLE	H and Sp. Cond. meters: _		
TRANSPORTED BY A MINTON		,	PARTLE CLOUDE, WINE
RECEIVED BY			
DATE REC'D TIME REC'D PM	Comments and unusual		ITY): WATER SAMPLE
TRANSPORTED BY	<u>aroud</u>	<u>, </u>	
AM A	•		

·- /11/PCP-20

Samials	•-711	PCP-20			
WATER QUALITY AND	WASTE-TREATME	ENT WORKS EFFLUE	ENT SAMPLING I	FORM	
2	ENVIRONMENTAL P	ROTECTION AGENCY			
SAMPLE COLLECTED BY:		FOF	R LABORATORY USE	ONLY	
GIARY L MIN	TON.	SAMPLE RECEIVED BY	47.18		MP
CIATEI		DATE REC'D	TIME REC'D		<u> </u>
SAMPLING LOCATION:	Disch	DATE ANALYSES COMPLI			
FIDELITY X//	200	DATE RESULTS FORWAR	DED DC1 8 19	986	
BASIN/SUB-BASIN TRIBUTARY BIS MUDGY/BEAUCOUP PANTI	Aka Caral	TOTAL TESTS REQUESTE		ESTS FIUN_	}
GARD COL.	CARD COL.	LAB SECTION CHAM	CARD COL.	VISOR_U	*
1 1 CARD NO. 1	1 2	CARD NO. 2	1	3	CARD NO. 3
2-5 _ NC E BASIN CODE		NT OR STATION NO.	8 - 10		NTY CODE Y FOR PLANTS
11-17B613352 ID NO.	11-17 B6133	52 LAB ID NO.	11-17 Bol.	JJ52	LAB ID NO.
SAMPLE TYPE CODE (SEE LIST BELOW)	18 I SAMPLE	TYPE CODE	18	PLE TYPE CO	DDE
19 · 20 & G YEAR	ARSENIC 19 - 22		PLANKTON (NO/ML) 19 - 23	<u> </u>	-
21 - 22 O S MONTH	BARIUM 23 - 25	<u></u>	FLUORIDE 24 - 26	wew.	<u> </u>
23 - 24 <u>2</u> <u>0</u> DAY	BORON 26 - 28		CHLORIDE 27 - 30	>∭	_£.
25 - 28 / HOUR (NEAREST)	CADMIUM 29 - 32		SULFATE 31 - 34	10	40.
27 II TIME OF DAY (A.P.N.)	CHROMIUM (HEX) 33 -	. 35	TOTAL SULFUR 35	i - 38 👑	
WATER TEMPERATURE 28 - 30 (DEG. F.)	CHROMIUM (TRI) 36 - :	38	OIL 39 - 42		. — — ·
31 - 33 FIELD D.O.	CHROMIUM 39 - 41		M.B.A.S. 43 - 46	iii Maa	
PH (UNITS) 34 - 38	COPPER 42 - 45		EXTRACT 47 - 50	IFORM	<u> </u>
TOTAL PHOSPHORUS 37 - 40	CYANIDE 46 - 49	24	TURBIDITY (UNITS) 51 - 54	***** ********************************	
AVG. BOD. 41 - 44	IRON (T) 50 - 53		RESIDUE ON	_ 20	470
C.O.D. 45 - 48	IRON (DISSOLVED) 54	11/1/ 11/1/20 11/1/20	VOLATILE SUSP.		·
PHENOLS 49 - 52	LEAD 57 - 60	024	SOLIDS 59 - 62	32 32	:
FEC COL	(MANGANESE 61 - 63)		COLOR (UNITS) 63	3 - 65	
53 - 59	MERCURY (MICRO GM/L) 64 - 66		HARDNESS 66 - 66	9	- ·
AMMONIA N 60 - 63	NICKEL 67 - 69		ALKALINITY 69 - 7	1	212.
NITRATE + NITRITE AS N 64 - 66	SELENIUM 70-72		TOTAL ACIDITY 7	2 - 74)	
ORGANIC N 67 - 69	SILVER 73 - 76		FREE ACIDITY 75	777.77	·
TOTAL N 70 - 72	ZINC 77 - 79		OTHER TESTS RE	QUIRED	
T.D.S./ E.C. 73 - 76	ALL RESULTS EXPRE WHERE OTHERWISE	SSED AS MG/L EXCEPT STATED.	── ☐ YES (REFEREN ☐ NO	ICE REVERS	E SIDE)
SOLIDS 77 - 80		of ice) or R.P. to W.S.:			
SAMPLE TYPE CODES: A = DOMESTIC WASTE ONLY E = INDUSTRIAL WASTE ONLY	Sampling Techniques:	GRAB			
 I = MIXED DOMESTIC & INDUSTRIAL WASTE S = STREAM, LAKE, OR RECEIVING WATER T = MINE DRAINAGE OR WASTE 	Flow conditions (velo	ocity etc.) 200	GPM		
X = OTHER OR TYPE UNKNOWN SIGN BELOW FOR EFFLUENT SAMPLE	Identification Nos on	pH and Sp. Cond. meters:			
TRANSPORTED BY A MUSTON	Weather Conditions: HOT PARTEY CLUIDY WINDY				
RECEIVED BY					<u></u>
DATE REC'DTIME REC'D PM	Comments and unusu	ual conditions (indicate severi	ty): CUATER 5	AMPLE	CEAR
TRANSPORTED BY		1			
RECEIVED BY					
AM OF A COLOR	WOC 120 REV 3/78		_		